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1 A yellow-pages service for a local-area network   ▬
L. L. Peterson
August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology,** Volume 17 Issue 5

Full text available: ⬚ pdf(822.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

> We introduce a yellow-pages service that maps service names into server addresses. The service is novel in that it associates a set of attributes with each server. Clients specify the attributes the server should possess when requesting a service and the yellow-pages service determines what servers satisfy the request. In addition to describing the implementation of the yellow-pages service within a local-area network, we show how the service can be integrated with the available internet co ...

2 Protecting the integrity of agents: an exploration into letting agents loose in an   ▬
unpredictable world
Michael J. Grimley, Brian D. Monroe
June 1999 **Crossroads,** Volume 5 Issue 4

Full text available: ⬚ html(53.50 KB)   Additional Information: full citation, index terms

3 Robustness: Defensive programming: using an annotation toolkit to build DoS-resistant ☐
software
Xiaohu Qie, Ruoming Pang, Larry Peterson
December 2002 **ACM SIGOPS Operating Systems Review,** Volume 36 Issue SI

Full text available: ⬚ pdf(2.13 MB)   Additional Information: full citation, abstract, references

> This paper describes a toolkit to help improve the robustness of code against DoS attacks. We observe that when developing software, programmers primarily focus on functionality. Protecting code from attacks is often considered the responsibility of the OS, firewalls and intrusion detection systems. As a result, many DoS vulnerabilities are not discovered until the system is attacked and the damage is done. Instead of reacting to attacks after the fact, this paper argues that a better solution i ...

4 Epidemic algorithms in replicated databases (extended abstract)   ☐
D. Agrawal, A. El Abbadi, R. C. Steinke

May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Full text available: pdf(1.59 MB)　　　Additional Information: full citation, references, citings, index terms

5 SpaceFusion: a multi-server architecture for shared virtual environments
Hiroyasu Sugano, Koji Otani, Haruyasu Ueda, Shinichi Hiraiwa, Susumu Endo, Youji Kohda
February 1997 **Proceedings of the second symposium on Virtual reality modeling language**
Full text available: pdf(1.04 MB)　　　Additional Information: full citation, references, citings, index terms

Keywords: VRML, client/server model, distributed shared virtual environment, scalability

6 A distributed debugger for Amoeba
I. J. P. Elshoff
November 1988 **ACM SIGPLAN Notices , Proceedings of the 1988 ACM SIGPLAN and SIGOPS workshop on Parallel and distributed debugging**, Volume 24 Issue 1
Full text available: pdf(1.15 MB)　　　Additional Information: full citation, abstract, references, citings, index terms, review

We describe a debugger that is being developed for distributed programs in Amoeba. A major goal in our work is to make the debugger independent of the Amoeba kernel. Our design integrates many facilities found in other debuggers, such as execution replay, breakpointing, and an event-based view of the execution of the target program. This paper discusses the influence of Amoeba's architecture on the attainability of our goals and the desired functionality of the debugger. We also consider su ...

7 Deriving a protocol converter: a top-down method
K. L. Calvert, S. S. Lam
August 1989 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols**, Volume 19 Issue 4
Full text available: pdf(1.25 MB)　　　Additional Information: full citation, abstract, references, citings, index terms

A protocol converter mediates the communication between implementations of different protocols, enabling them to achieve some form of useful interaction. The problem of deriving a protocol converter from specifications of the protocols and a desired service can be viewed as the problem of finding the "quotient" of two specifications. We define a class of finite-state specifications and present an algorithm for solving "quotient" problems for the clas ...

8 Distributed operating systems
Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Full text available: pdf(5.49 MB)　　　Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

9 <u>Internet protocol implementation experiences in PC-NFS</u>

G. Arnold

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology,** Volume 17 Issue 5

Full text available: pdf(750.36 KB)   Additional Information: <u>full citation,</u> <u>abstract,</u> <u>references,</u> <u>index terms</u>

A team at Sun Microsystems East Coast Division has been engaged in developing and supporting a PC implementation of Sun's Network File System (NFS™) protocols. In the course of this work we were faced with the problem of implementing Internet protocol software within the PC environment. Our experiences revealed that there are some unique obstacles to be overcome in this kind of system, and indicate that further work is needed in the development of protocols to manage networks of low-e ...

10 <u>The profile naming service</u>

Larry L. Peterson

November 1988 **ACM Transactions on Computer Systems (TOCS),** Volume 6 Issue 4

Full text available: pdf(1.96 MB)   Additional Information: <u>full citation,</u> <u>abstract,</u> <u>references,</u> <u>citings,</u> <u>index terms,</u> <u>review</u>

Profile is a descriptive naming service used to identify users and organizations. This paper presents a structural overview of Profile's three major components: a confederation of attribute-based name servers, a name space abstraction that unifies the name servers, and a user interface that integrates the name space with existing naming systems. Each name server is an independent authority that allows clients to describe users and organizations with a multi ...

11 <u>Load balancing and fault tolerance in workstation clusters migrating groups of</u> <u>communicating processes</u>

S. Petri, H. Langendörfer

October 1995 **ACM SIGOPS Operating Systems Review,** Volume 29 Issue 4

Full text available: pdf(894.43 KB)   Additional Information: <u>full citation,</u> <u>abstract,</u> <u>citings,</u> <u>index terms</u>

In the past, several process migration facilities for distributed systems have been developed. Due to the complex nature of the subject, all those facilities have limitations that make them usable for only limited classes of applications and environments. We discuss some of the usual limitations and possible solutions. Specifically, we focus on migration of groups of collaborating processes between Unix systems without kernel modifications, and from this we derive the design for a migration syst ...

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